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| WEATHER CLIMATE WATER | **World Meteorological Organization**  **COMMISSION FOR OBSERVATION, INFRASTRUCTURE AND INFORMATION SYSTEMS**  **Second Session** 24 to 28 October 2022, Geneva | **INFCOM-2/Doc. 4.2** |
| Submitted by: Co-Chairs of SG-GHG  10.X.2022  **DRAFT 1** |

**AGENDA ITEM 4: REVIEW OF THE EXECUTIVE COUNCIL RESOLUTIONS RELATED TO THE COMMISSION**

**AGENDA ITEM 4.2: GHG monitoring infrastructure**

# Greenhouse gas monitoring infrastructure

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| **Summary** |
| **Document presented by:** Co-Chairs of the joint Study Group on WMO Greenhouse Gas Monitoring (SG-GHG) to recommend to Executive Council the consideration of the draft Concept Note.  **Strategic objective 2020–2023:** 2.3  **Financial and administrative implications:** within the parameters of the Strategic and Operational Plans 2020–2023, will be reflected in the Strategic and Operational Plans 2024–2027.  **Key implementers:** INFCOM, SERCOM, RB  **Time frame:** 2023–2027  **Action expected:** Review and adopt the proposed draft recommendation |

# DRAFT RECOMMENDATION

## Draft Recommendation 4.2/1 (INFCOM-2)

### Greenhouse gas monitoring infrastructure

THE COMMISSION FOR OBSERVATION, INFRASTRUCTURE AND INFORMATION SYSTEMS,

**Recalling** [Resolution  4 (EC-75)](https://meetings.wmo.int/EC-75/_layouts/15/WopiFrame.aspx?sourcedoc=/EC-75/English/2.%20PROVISIONAL%20REPORT%20(Approved%20documents)/EC-75-d04(3)-GLOBAL-GREENHOUSE-GAS-MONITORING-approved_en.docx&action=default) - Development of a WMO-coordinated Global Greenhouse Gas Monitoring Infrastructure, which decided to further develop the concept for a WMO-coordinated Global Greenhouse Gas Monitoring Infrastructure, and to form a joint study group between the Commission for Observation, Infrastructure and Information Systems (INFCOM), the Commission for Weather, Climate, Water and Related Environmental Services and Applications (SERCOM), and the Research Board (RB), with appropriate involvement of external stakeholders,

**Having been informed** about the establishment of the joint Study Group on WMO Greenhouse Gas Monitoring (SG-GHG) by the presidents of INFCOM and SERCOM and Chair of RB, as announced through the circular letter [20441/2022/I/GHG](https://extranet.wmo.int/edistrib_exped/grp_prs/_en/20441-2022-I-GHG_en.pdf) dated 12 September 2022, which has a well-balanced membership from WMO technical bodies, programmes and external stakeholders,

**Noting** the planned “WMO International Greenhouse Gas Monitoring Symposium” to be held from 30  January to 2 February 2023 in Geneva, which serves as an opportunity to further engage the international scientific and user communities in the development of this concept,

**Recognizing** the significant policy implications of greenhouse gas monitoring data, and thus the need for any greenhouse gas monitoring to be carried out in international coordination, with full transparency, and in accordance with [Resolution  1 (Cg-Ext.(2021))](https://library.wmo.int/doc_num.php?explnum_id=11113#page=9) – WMO Unified Policy for the International Exchange of Earth System Data and its call for free and unrestricted international exchange of Earth system data*,*

**Noting with appreciation** the work undertaken by SG-GHG, focusing on four main tasks: 1) landscape analysis, 2) core GHG monitoring system capabilities and output data, 3) input data requirements and 4) system output - downstream applications and user services,

**Having examined** the current draft of the Concept Note being developed by SG-GHG, provided in [INFCOM-2/INF. 4.2](https://meetings.wmo.int/INFCOM-2/InformationDocuments/Forms/AllItems.aspx),

**Invites** Members to review and provide SG-GHG with feedback on the draft Concept Note by 30 November 2022, to enable SG-GHG to finalize it for consideration by the Executive Council at its the forthcoming session in February 2023,

**Recommends** to the Executive Council:

(1) Consideration of a final draft of the Concept Note, with the aim of recommending its approval to the nineteenth session of the World Meteorological Congress; and

(2) That this Concept Note be reflected in the WMO Strategic Plan and Budget 2024–2027,

**Requests** SG-GHG to further develop, refine and finalize the Concept Note and that the President of the Infrastructure Commission submit it to the seventy-sixth session of the Executive Council.

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See [INFCOM-2/INF. 4.2](https://meetings.wmo.int/INFCOM-2/InformationDocuments/Forms/AllItems.aspx) for more information.